**Area X Poultry Judging Contest**

**Texas A&M University – Kingsville**

**April 13, 2011**

1. On a broiler breeder pullet and cockerel farm, birds are raised from hatchlings to approximately \_\_ weeks of age and will replace older breeder flocks.

a. 8 b. 12 c. 16 **d. 20**

2. During embryogenesis, this temporary membrane is attached to the inside f the shell and helps exchange oxygen and carbon dioxide, acts as a reservoir to collect solid wastes, and removes calcium from the shell to be used by the embryo to form bones.

**a. Chorioallantoic** b. Chorion c. Yolk sac d. Amnion

3. When raising market turkeys, a tom marketed at 21 weeks of age usually weighs more than \_\_ pounds.

a. 16 b. 20 c. 30 **d. 40**

4. The body temperature of poultry ranges between \_\_ and \_\_ °F.

a. 37 and 39 b. 40 and 41 c. 102 and 104 **d. 105 and 107**

5. What is the name of the feather that separates the primary and secondary wing feathers?

a. **Axial**  b**.** Hackle c. Sickle d. Saddle

6. Which of the following diseases is classified as a respiratory disease?

a. Cholera b. **Aspergillosis** c. Cocccidiosis d. Necrotic Enteritis

7. When a pullet begins producing eggs, the pigment in her body begins to fade. How long does it take to bleach out the beak?

a. 0 to 2 weeks b. 2 to 2.5 weeks c. 3 to 4 weeks **d. 5 to 8 weeks**

8. The moisture content of poultry manure is approximately \_\_.

a. 5% b. 15% c. 50%  **d. 75%**

9. The incidence levels of *Salmonella* must be maintained at levels below \_\_\_% to pass FSIS inspection.

a. 5 b. 10 **c. 20** d. 30

10. A typical feed withdrawal period for market turkeys prior to processing is \_\_\_hrs.

a. 2 b. 6 **c. 8** d. 12

11. The rate of food passage in an egg laying hen is \_\_\_\_ hrs.

a. 1.5 **b. 2.5** c. 4.5 d. 8.5

12. The chicken oviduct is nearly \_\_ inches long in an egg producing hen

**a. 30** b. 78 c.94 d. 107

13.*Coturnix coturnix* is the genus species name for what time of poultry?

a. Ring-necked pheasant **b. Common Quail** c. Mallard Duck d. Domestic Goose

14. Chickens have \_\_\_ air sacs in the respiratory system which carry air from the bronchi to almost all parts of the body.

a. Six b. Eight **c. Nine** d. Twelve

15. Poultry have a strong respiration rate with \_\_\_ exchanges per minute while at rest?

a. 10 **b. 20**  c. 30 d. 50

16. What is the name of the part of the egg that is a protein that is present on each side of the yolk?

**a. Chalaza** b. Latebra c. Blastoderm d. Vitelline

17. Feather growth begins at approximately day \_\_ of egg incubation.

**a. 5** b. 9 c. 18 d. 20

18. Which of the following is classified as a “stress factor” in the cause of a disease?

**a. Poor ventilation** b.Rickettsiae c. Viruses d. Fungi

19. When evaluating plumage condition in egg-type production hens, which of the following should be considered?

a. **Feather appearance** b. Pigmentation c. Width of hips d. Size of Comb

20. Breast meat accounts for about \_\_\_ % of the carcass without giblets weight.

a. 13 b. 25  **c. 34**  d. 63

Use the following information to answer Questions 21 to 25.

A family owned poultry operation has a broiler breeder flock of 15,350 hens which produced 92,407 total eggs over a seven day period of which 975 were deemed unsettable due to because of checks and other defects. The company placed all of the settable eggs in an incubator and a total of 79,800 chicks hatched. One percent of the total hatch was culled at the hatchery for humane reasons prior to placement and the remainder was placed in broiler houses for growout. Following hatch, a total of 4,139 eggs were found to be infertile. On day 42 of age, a total of 76,053 broilers with an average live weight of 5.8 lbs were loaded and transported to the processing plant. It was determined that the flock had a feed conversion during growout of 1.80. Following processing, the average carcass weight of this flock was 4.21 lbs with an average breast meat weight following deboning of 1.04 lbs. The profit margin that the company experienced was $0.04 per lb of carcass weight produced.

21. What is the percentage of fertility of total egg production of this flock?

a. 86.0% b.88.6% c. 92.4% **d. 95.5%**

22. What is the breast yield of carcass yield of carcass weight?

a. 16.6% b. 17.9% c. 21.2% **d. 24.7%**

23. What is the hatchability of total eggs produced?

a. 83.4% **b. 86.4%** c. 90.4% d. 91.4%

24. What was the feed consumption of each broiler during the grow out.

a. 5.8 lbs b. 7.58 lbs **c. 10.44 lbs**  d. 12.1 lbs

25. Calculate the amount of profit that was lost by the company due to the loss of cull chicks at the hatchery?

a. $0.17 **b. $134.38** c. $3,163.80 d. $12,807.33